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(54) Title: FISH PRODUCED BY NUCLEAR TRANSFER FROM CULTURED CELLS

(57) Abstract: The disclosure provided herein teaches that fertile transgenic fish can be generated by nuclear transfer using cultured cells such as embryonic fibroblasts.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/18393

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 15/00; A01K 67/027
US CL : 800/20,24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 800/20,24

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,T,P	LEE, K.-Y. et al. Cloned zebrafish by nuclear transfer from long-term-cultured cells. Nature Biotech. August 2002, Vol. 20, pages 795-799, specifically, page 799.	1,2,4,5-7,9,10,
Y	ZHAO, H-B. et al. Nuclear transplantation of somatic cells of transgenic red carp. Acta Genetics Sinica. May 2002, Vol. 29, pages 406-412, entire document.	1-4,9-14,16,17,20,21
Y	WAKAMATSU, Y. et al. Fertile and diploid nuclear transplants derived from embryonic cells of a small laboratory fish, medaka (<i>Oryzias latipes</i>). PNAS. 30 January 2001, Vol. 98, No. 3, pages 1071-1076, specifically, Materials and methods, pages 1071-1072; page 1073, col. 1, paragraph 3.	1-5,9-14,16,17,20,21
X	LIU, T.-M. et al. Studies on factors affecting the development of embryos from somatic cell nuclear transplantation in the fish. Zoological Research. April 2002, Vol. 23, No. 2, pages 107-112; Abstract.	11,12,20,21
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Y		1-5,9-14,16,17,20,21



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"P" document published prior to the international filing date but later than the priority date claimed		

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INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P --- Y,P	LIU, T.M. et al. Factors affecting the efficiency of somatic cell nuclear transplantation in the fish embryo. Journal of Experimental Zoology. December 2002, pages 719-725, specifically, page 720, paragraph bridging columns 1 and 2; page 720, col. 2, lines 28-33.	11,12,20,21 ----- -4,9,10,13,14,16,17
A	DI BERARDINO, M.A. Animal cloning-the route to new genomics in agriculture and medicine. Differentiation. 2001, Vol. 68, pages 67-83, specifically page 72 col. 1.	1-21